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- (81) 指定国(国家): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
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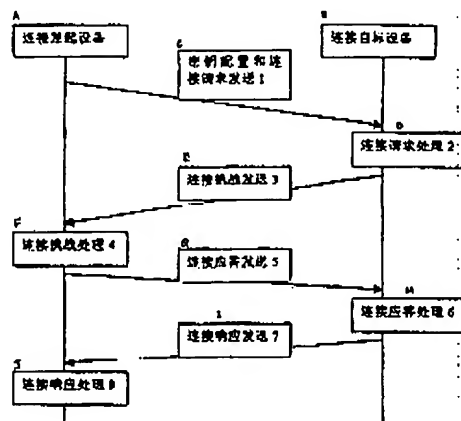
本国际公布:

— 包括国际检索报告。

所引用双字母代码和其它缩写符号, 请参考刊登在每期PCT公报期刊起始的“代码及缩写符号简要说明”。

(54) Title: THE METHOD FOR CONNECTING DEVICES IN DYNAMIC FAMILY NETWORKING

(54) 发明名称: 家庭网络中实现动态组网时的设备对等连接方法



- A...THE DEVICE INITIATING A CONNECTION
B...THE TARGET DEVICE
C...KEYS CONFIGURATION AND SEND OUT A CONNECTING REQUEST 1
D...DEAL WITH THE CONNECTING REQUEST 2
E...SEND A CHALLENGING VALUE OF CONNECTION 3
F...DEAL WITH THE CHALLENGE OF CONNECTION 4
G...SEND OUT A RESPONSE MESSAGE OF CONNECTION 5
H...DEAL WITH THE RESPONSE MESSAGE OF CONNECTION 6
I...SEND OUT THE CONNECTING RESULT 7
J...DEAL WITH THE CONNECTING RESULT 8

(57) Abstract: This invention refers to a method for connecting devices in dynamic family networking, which is to control the equivalent devices in a network with no resource manager. The method used to interconnect the devices includes the steps as follows: The device initiating a connection sends a connecting request to the target device; The target device generates a challenging value of connection randomly and sends it back to the initial one; The initial generates and return a response message based on the challenging value; The target responds to the initial in terms of the former response value about the connecting; And the initial device judges the connecting result by the finally returned message. When the final response shows the connecting successful, the equivalent connection between the initial and the target has been set up. The method for the disconnection includes: if one interconnected side sends a disconnecting message to the other, the connection will be cut off. Both sides in a connection can be served as a service provider or service user mutually.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/CN 03/00524

A. CLASSIFICATION OF SUBJECT MATTER

IPC⁷: H04L12/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷: H04L12/28

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI,EPODOC,PAJ,CNPAT

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages			Relevant to claim No.
P,A	CN1381781A	27 November 2002(27.11.2002)	See whole document	1—14
A	CN1356809A	03 July 2002 (03.07.2002)	See whole document	1—14
A	CN1372404A,	02 October 2002 (02.10.2002)	See whole document	1—14
A	WO9859282A2	30 December 1998 (30.12.1998)	See whole document	1—14
A	WO0038370A1	29 June 2000 (29.06.2000)	See whole document	1—14
A	WO 0105186A1	18 January 2001(18.01.2001)	See whole document	1—14

☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

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INTERNATIONAL SEARCH REPORT
Information patent family members

Search request No.

PCT/CN03/00524

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